Carbol-fuchsine dilute solution,E0019E-2,09/12/2020

Date of issue: 15/02/2018 Date of revision: 09/12/2020

Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name: Carbol-fuchsine dilute solution

SDS No.: E0019E-2

Details of the supplier of the safety data sheet

Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD. Address: 3-1, Honmachibashi, Chuo-ku, Osaka, JAPAN Division: Safety Management Dept. of Chemicals

Telephone number: +81-6-6946-8061

FAX: +81-6-6946-1607

e-mail address: kagakuhinanzenkanri@kishida.co.jp

2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

HEALTH HAZARDS

Germ cell mutagenicity: Category 1B

Carcinogenicity: Category 1A Reproductive toxicity: Category 1A

(Note) GHS classification without description: Not classified/Classification not possible

Label elements



Signal word: Danger HAZARD STATEMENT

May cause genetic defects

May cause cancer

May damage fertility or the unborn child

PRECAUTIONARY STATEMENT

Response

IF exposed or concerned: Get medical advice/attention.

Disposal

Dispose of contents/container in accordance with local/national regulation.

3. Composition/information on ingredients

Mixture/Substance selection:

Mixture

Ingredient name:Ethanol

Content (%):0.72

Chemical formula:C2H5OH

Chemicals No, Japan:2-202

CAS No.:64-17-5

MW:46.07

ECNO:200-578-6



Ingredient name:Fuchsine, basic Content (%):0.10 Chemical formula:C20H19N3.CIH Chemicals No, Japan:5-1976 CAS No.:632-99-5 MW:337.88 ECNO:211-189-6

Ingredient name:Phenol Content (%):0.47 Chemical formula:C6H6O Chemicals No, Japan:3-481 CAS No.:108-95-2 MW:94.11 ECNO:203-632-7

Ingredient name:Water Content (%):99 Chemical formula:H2O CAS No.:7732-18-5 MW:18.02

ECNO:231-791-2

Note: The figures shown above are not the specifications of the product.

4. First-aid measures

Descriptions of first-aid measures

General measures

IF exposed or concerned: Get medical attention/advice.

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth.

Call a POISON CENTER or doctor/physician if you feel unwell.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media data is not available.

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

Wear fire/flame resistant/retardant clothing.

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Wear protective gloves/protective clothing/eye protection/face protection. Firefighters should wear self-contained breathing apparatus with full face peace operated positive pressure mode.

6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Ventilate area until material pick up is complete.

Wear proper protective equipment.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Preventive measures for secondary accident

Collect spillage.

7. Handling and storage

Precautions for safe handling

Preventive measures

(Protective measures against fire and explosion)

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

Safety Measures

Wear protective gloves, protective clothing or face protection.

When using do not eat, drink or smoke.

Any incompatibilities

See "10.Stability and Reactivity"

Storage

Conditions for safe storage

Keep container tightly closed.

Store in a cool, dry place. Do not store in direct sunlight.

Container and packaging materials for safe handling

Glass

8. Exposure controls/personal protection

Control parameters

Adopted value

(Ethanol)

ACGIH(2008) STEL: 1000ppm (URT irr)

(Phenol)

ACGIH(1992) TWA: 5ppm (URT irr; lung dam; CNS impair)

Notation

(Phenol)

Skin

OSHA-PEL

(Ethanol)

TWA: 1000ppm, 1900mg/m3

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(Phenol)

TWA: 5ppm, 19mg/m3

Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Respiratory protection

Wear respiratory protection.

Hand protection

Wear protective gloves.

Eye protection

Wear eye/face protection.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state: Liquid

Color: Red

Odor: Practically odourless

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH data is not available.

Kinematic viscosity data is not available.

Solubility:

Solubility in water: Soluble

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available. Density and/or relative density: 1.0

Relative vapor density (Air=1) data is not available.

No Particle characteristics data is not available.

10. Stability and Reactivity

Reactivity

Not available.

Chemical stability

Stable under normal storage/handling conditions.

Possibility of hazardous reactions

(Ethyl alcohol)

The vapour mixes well with air, explosive mixtures are easily formed.

Reacts slowly with calcium hypochlorite, silver oxide and ammonia. This generates fire and explosion hazard. Reacts violently with strong oxidants such as nitric acid, silver nitrate, mercuric nitrate and magnesium perchlorate. This generates fire and explosion hazard. (ICSC 0044)

(Phenol)

The solution in water is a weak acid. Reacts with oxidants. This generates fire and



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explosion hazard. (ICSC 0070)
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Conditions to avoid

Contact with incompatible materials.

Contact with fire source.

Incompatible materials

Reproductive toxicity

Oxidizing agents, Calcium hypochlorite, Silver oxide, Ammonia

Hazardous decomposition products

Carbon oxides, Nitrogen oxides, Chlorine compounds

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11. Toxicological Information
  Information on toxicological effects
  Acute toxicity
     Acute toxicity (Oral)
          [GHS Cat. Japan, base data]
          (Phenol)
          rat LD50=375mg/kg (cal.)
     Acute toxicity (Dermal)
          [GHS Cat. Japan, base data]
          (Phenol)
          rat LD50=670mg/kg (EHC 161, 1994)
  Irritant properties
     Skin corrosion/irritation
          [GHS Cat. Japan, base data]
          (Phenol)
          rabbit/human corrosive (EHC 161, 1994)
     Serious eye damage/irritation
          [GHS Cat. Japan, base data]
          (Ethanol)
          rabbit recover within 7 days (ECETOC TR No.48(2), 1998 et al)
          (Phenol)
          rabbit irreversible effects (EHC 161, 1994)
  Allergenic and sensitizing effects data is not available.
  Germ cell mutagenicity
          [GHS Cat. Japan, base data]
          (Phenol)
          cat. 1B; CERI/NITE risk assessment No.32, 2005
  Carcinogenicity
          [GHS Cat. Japan, base data]
          (Ethanol)
          cat.1A; (IARC, 2010)
          (Fuchsine, basic)
          cat.2; IARC Gr. 2B (IARC 99, 2010 (magenta mixture) et al.)
          (Ethanol)
          IARC-Gr.1: Carcinogenic to humans
          (Fuchsine, basic)
          IARC-Gr.2B: Possibly carcinogenic to humans
          IARC-Gr.3: Not Classifiable as a Human Carcinogen
          (Ethanol)
          ACGIH-A3(2008): Confirmed Animal Carcinogen with Unknown Relevance to Humans
          ACGIH-A4(1992): Not Classifiable as a Human Carcinogen
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[GHS Cat. Japan, base data]

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(Ethanol)
          cat. 1A; human: PATTY 6th, 2012
          cat. 1B; CERI/NITE risk assessment No.32, 2005
  STOT
     STOT-single exposure
     [cat.3 (resp. irrit.)]
          [GHS Cat. Japan, base data]
          (Ethanol)
          respiratory tract irritation (PATTY 6th, 2012)
     [cat.3 (drow./dizz.)]
          [GHS Cat. Japan, base data]
          (Ethanol)
          narcotic effect (PATTY 6th, 2012; SIDS, 2005)
     STOT-repeated exposure data is not available.
  Aspiration hazard data is not available.
12. Ecological Information
  Ecotoxicity
  Aquatic toxicity
     Hazardous to the aquatic environment (Acute)
          [GHS Cat. Japan, base data]
          (Phenol)
          Crustacea (Ceriodaphnia reticulata) LC50=7.83mg/L/48hr (geometric mean value)
          (Ethanol)
          Algae (Chlorella) EC50=1000mg/L/96hr (SIDS, 2005)
     Hazardous to the aquatic environment (Long-term)
          [GHS Cat. Japan, base data]
          (Phenol)
          Fish (fat head minnow) NOEC=0.75mg/L/30days (NITE primary risk assessment, 2007)
          Crustacea (Ceriodaphnia reticulata) NOEC=9.6mg/L/10days (SIDS, 2005)
  Water solubility
          (Phenol)
          moderate (ICSC, 2001)
          (Ethanol)
          miscible (ICSC, 2000)
  Persistence and degradability
          Degrade rapidly (BOD_Degradation: 85%/2 weeks; TOC_Degradation: 95%/2 weeks (Registered
          chemicals data check & review, 1979))
          (Ethanol)
          Degrade rapidly (BOD_Degradation: 89% (Registered chemicals data check & review, 1993))
  Bioaccumulative potential
          (Phenol)
          log Pow=1.46 (ICSC, 2001)
          (Ethanol)
          log Pow=-0.32 (ICSC, 2000)
  Mobility in soil
          Mobility in soil data is not available.
  Other adverse effects
          Ozone depleting chemical data is not available.
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13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

14. Transport Information

Not applicable to UN No., UN CLASS

Not applicable to IMDG Code

Not applicable to IATA Dangerous Goods Regulations

Environmental hazards

MARPOL Annex III - Prevention of pollution by harmful substances

Marine pollutants (yes/no): no

MARPOL Annex V - Prevention of pollution by garbage discharge

Germ cell mutagenicity: cat.1, 1A, 1B

Phenol

Carcinogenicity: cat.1, 1A, 1B

Ethanol

Reproductive toxicity: cat.1, 1A, 1B

Ethanol; Phenol

Transport in bulk according to Annex II of MARPOL73/78 and IBC Code

Noxious Liquid; Cat. Y

Phenol

Noxious Liquid; Cat. Z

Ethanol

Non Noxious Liquid; Cat. OS

Water

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture US Federal Regulations

Chemicals listed in TSCA Inventory

Ethanol; Phenol; Fuchsine, basic; Water

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. Other information

GHS classification and labelling

Muta. 1B: H340 May cause genetic defects

Carc. 1A: H350 May cause cancer

Repr. 1A: H360 May damage fertility or the unborn child

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (7th revised edition, 2017), UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN

IMDG Code, 2018 Edition (Incorporating Amendment 39-18)

IATA Dangerous Goods Regulations (61th Edition) 2020

Classification, labelling and packaging of substances and mixtures (Table 3 ECNO6182012)

2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT)



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2020 TLVs and BEIs. (ACGIH) http://monographs.iarc.fr/ENG/Classification/index.php Supplier's data/information

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2019).